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Cosmetic Raw Material

Micro Beads

SUNJIN CHEMICAL CO is an R&D driven company that brings innovations to the cosmetic industry.

We have a scope of technologies such as microencapsulation, encapsulation and composition technology, inorganic synthesis technology and more.

For more information,
please visit our home page: www.sunjinchem.com
or email: sales@sunjinchem.co.kr
or call office tel: 82-31-494-6322(300)
or call mobile: 82-11-9920-1454

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TECHNOLOGY OVERVIEW

Technology Overview

Micro bead synthesis

Silica beads

PMMA beads

Nano powder synthesis

ZnO, TiO₂, ZrO₂, SiO₂

PMMA

Encapsulation with

Silica

PMMA

Surface treatment

Sol & thin film coating

Composition

TiO₂/Silica

Dispersion

TiO₂

ZnO

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SILICA BEADS: SUNSIL series

SUNSIL 130 series & Naked Silica Beads

Oil absorption	Low	Standard
Avg. Particle size	(0.6 0.9 cc/g)	(0.9 1.3 cc/g)
1.3 μm	-	Sunsil 20
6.9 μm	Sunsil 130L	Sunsil 130
12.16 μm	-	-

Sunsil-20

Oil absorption comparison table

Silica	cc/g
SUN	SUN
SUNSIL 150H	
SUNSIL 130H	
SUNSIL 130	
SUNSIL 130L	
Spheron P-1500	0.6
Spheron P-1000	
Spheron L-1500	
H51	
MSS-500/3H	
Silica Bead SB-700	

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Silica Beads

Naked silica bead	Size(μm)	Oil (cc/g) Absorption	
SUNSIL 130NP —Non porous“	7	0.40.6	
SUNSIL 130L —Low“	7	0.60.9	2
SUNSIL 130 —Standard“	7	0.91.2	2
SUNSIL 130H —High oil absorption“	7	1.21.5	
SUNSIL 20 —Small sized“	2	0.91.2	
SUNSIL 150H —Very High oil absorption“	15	1.42.1	

Surface treated silica bead

SUNSIL 130SC	Silicone oil coated For pressed powders --> good pressability Better smoothness and softer feeling
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SUNPMMA S & The most pure PMMA bead in the world

Specifications

Size distribution	Poly-dispersed	
Appearance	White fine powder	
Cross linkage	Cross-linked	
Avg. Particle Size	5 10 μm	
Apparent density	About 0.71 g/cc	
Oil absorption	0.4 0.6 cc/g	
Moisture	5% max.	<i>Regulation</i>
Residual monomer	10 ppm max.	INCI Name: Methyl Polymer
p H	Neutral	CAS No: 25777-71- EINECS No: Exem
Odor	Odorless	Custom Tariff No:

Residual Monomer Content Comparison table

Product	MMA content	EGDMA content	Bad
Jurymer MB-1	144 ppm	0 ppm	
Matsmoto, Microporal M100	44 ppm	0 ppm	
Negami Artpearl	37 ppm	14 ppm	
SUNPMMA-S	7.5 ppm	0 ppm	
Lot: 03042210	5 ppm	0 ppm	
Lot: 03100201	6.5 ppm	0 ppm	
Lot: 03111501			

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Porous PMMA Bead & SUNPMMA P

Specifications

Size distribution	Poly-dispersed
Appearance	White fine powder
Cross linkage	Cross-linked
Avg. Particle Size	10 13μm
Apparent density	About 0.35 g/cc
Oil absorption	1.7 2.4 cc/g
Moisture	6% max.
Residual monomer	10 ppm max.
p H	Neutral
Odor	Odorless

PMMA	cc/g(by SUNJIN)	Manufacturer
SUNPMMA-S	0.47	Sunjin
Jurymer MB-1	0.45	Nihon Junyaku
Micropearl M 305	0.45	Matsumoto
SUNPMMA-P	2.12	SUNJIN
Covabead LH85	1.82	Nihon Junyaku
Microsponge 5640	2.02	AP Pharm

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Poly Urethane Bead: SUNPU, The Most Elastic Polymer Bead

Specifications

Size distribution	Poly-dispersed	T
Appearance	White fine powder	10% De
Avg. Particle Size	17 μm	
Moisture	5% max.	
p H	Neutral	
Odor	Odorless	

INCI Name:

HDI/Trimethylol

Hexyl

Lactone cross polymer

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Page 8**Poly Ester Bead - SUNPET****Nylon 12 like feeling***Specifications*

Size distribution	Poly-dispersed
Appearance	White fine powder
Avg. Particle Size	5 10 μm
Moisture	5% max.
p H	Neutral
Odor	Odorless

*Regulation***INCI Name: Poly Ethylene Terephthalate****CAS No. 25038-59-9****Tg: 70°C****www.sunjinchem.com
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Surface Treated Fillers

TALC J-DS – Surface treated Talc

Specification	MMC
Components	Cor
Talc	97.0 %
Methicone	1.0 %
Dimethicone	2.0 %
	Spe
Appearance	API
Odor	WHITE POWDER
Loss on Drying	ODORLESS
Lead	< 1% (1.0g, 105°C, 2hr)
Arsenic	< 20ppm
	Lea
	Mei
	Ars
	Odor
	Los
	Lea
	Mei
	Ars

TiO2 4S – Silicone Oil coated Titanium Dioxide

Specification	TiO2
Components	Cor
TiO2	96.0 %
Methicone	4.0 %
	Spe
Appearance	API
Odor	WHITE POWDER
Loss on Drying	ODORLESS
Lead	< 1% (1.0g, 105°C, 2hr)
Arsenic	< 20ppm
	Lea
	Mei
	Ars
	Odor
	Los
	Lea
	Mei
	Ars

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L10: Entry 21 of 37

File: PGPB

May 22, 2003

DOCUMENT-IDENTIFIER: US 20030096910 A1

TITLE: Ion-sensitive, water-dispersible polymers, a method of making same and items using same

Detail Description Table CWU:

12TABLE 12 Particles from Presperse, Inc. selected for use in pre-moistened wipes
Name Composition Characteristics MCP-45 Mica and polymethyl Fine powder, platelets methacrylate coated with microspheres, 13-17 microns Sericite SL-012 98% mica, 2% methicone Fine white powder, hydrophobic surface, 2-10 microns Rose talc Talc White powder, 10-12 microns Permethyl 104A Iso-octahexacontane (polyisobutene) Cashmir K-II Mica (97%), silica Fine white powder, beads (3%), platelets coated with 0.3 microns microspheres, 10-14 microns Synthecite FNK-100 Synthetic Fine powder, 10-15 fluorophogopite microns Ganzpearl GMX-0610 Methyl methacrylate Spherical powder, crosspolymer 4.5-8.5 microns Ganzpearl GS-0605 Styrene/ White powder, 4.5-8.5 divinylbenzene microns copolymer Ganzpearl PS-8F Styrene/ 0.4 microns divinylbenzene copolymer Spheron N-2000 Amorphous silica White powder, 2-15 microns, low oil absorption Spheron L-1500 Amorphous silica White powder, 3-15 microns, high oil absorption

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